



Reduce downtime and improve safety with SKF hydraulic tools

Benefits

- Faster, more efficient mounting and dismounting
- Improves safety by eliminating unsafe tools and practices
- Reduces repair costs, downtime and labor costs
- Avoids rework with accurate bearing mounting the first time

Typical applications

- Conveyors
- Hammer mills
- Sinter machines
- Kiln supports
- Industrial fans
- Gearboxes
- Electric motors

A. Hydraulic nuts HMV .. E series accommodate heavy drive-up forces

B. Hydraulic pump with pressure gauge and hydraulic nut with dial gauge

C. Oil injector enables fast dismounting of bearings

Improve employee safety, maintenance efficiency, and equipment performance with SKF® hydraulic tools

Mounting and dismounting bearings without the right tools can be expensive; but more importantly, it can expose your employees to possible injury. However, with SKF hydraulic tools, bearings, couplings and other mechanical components can be mounted and dismounted quickly, efficiently and safely.

In addition to being fast and safe, SKF hydraulic tools improve the likelihood that the bearing will be installed correctly for maximum bearing service life to reduce future maintenance requirements. Parts dismounted with hydraulic tools are also more likely to be suitable for re-use.

SKF has a wide assortment of hydraulic tools and accessories including:

- Hydraulic nuts
- Hydraulic pumps and injectors
- Fittings, nipples and other accessories

A selected range of SKF hydraulic nuts are available from SKF for rent/hire.





Increase the return on your maintenance investment with SKF.

The whole idea behind the SKF 360° Solution program is to help you get more out of your plant machinery and equipment investment.

This means lowering your maintenance costs, or raising your productivity, or both! Here's an example of the SKF 360° Solution program at work in the steel industry.

Steel producer saves over \$2.4 million by preventing downtime

In steel production, the trouble-free transfer of raw material to the blast furnace is critical to continuous operations. Equipment failure can cause long delays, requiring the furnace to cool, which only adds to the cost of lost production.

In one mill, the main belt conveyor used to transport sintered ore to the blast furnace had stopped working. After a quick analysis, it was determined that the problem was in the head pulley at the top end of the conveyor. Because the head pulley is supported by two large spherical roller bearings, the mill called the local SKF Authorized Distributor. SKF bearings had not been used during the last conveyor rebuild. However, since that time, the mill's maintenance team had become

aware that their decision to buy bearing systems based on price was not an economical solution.

Working with the customer, the distributor called in the SKF Reliability Engineer for steel mill applications. After a thorough analysis by SKF, it was determined that the cause of the failure was the result of a poor quality adapter sleeve combined with improper mounting procedures. The adapter sleeve used to secure the bearing to the shaft had failed, causing the shaft to spin inside the sleeve.



To keep production running for the short term, an emergency repair procedure was used. During that procedure, an adhesive compound was placed between the shaft and sleeve to fill the gap and hold the sleeve in place. The bearing was then fitted, applying the SKF Drive-up Method, using SKF hydraulic equipment.

SKF's emergency solution avoided the need to change the pulley, a job that would have taken 2-3 days, while taking a significant toll on production. The SKF tools used during the replacement process were able to further reduce downtime and provided a bearing that was installed correctly the first time. This producer now uses SKF bearings, sleeves, seals, housings and tools exclusively on this conveyor.



SKF 360° Solution ROI calculations are from the SKF Documented Solutions Program. Ask your SKF Authorized Distributor for more details.

Summary*

Total maintenance cost savings in not changing the pulley	\$40,240
Total production savings by preventing 3 days of downtime	\$2,414,290
Total savings	\$2,454,530

*Figures quoted are rounded and based on steel producer's estimates of material, labor and production costs.

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